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MULTIMEDIA UNIVERSITY

SUPPLEMENTARY EXAMINATION

TRIMESTER 1, 2015/2016

TIS 2351 / THI 3461 – HUMAN COMPUTER INTERACTION

(All sections / Groups)

17 NOV 2015 2.30 PM – 4.30 PM (2 HOURS)

INSTRUCTIONS TO STUDENTS

- 1. This question paper consists of 8 pages with 4 Sections only.
- 2. Attempt ALL questions in SECTION A, SECTION B, SECTION C and SECTION D. The distribution of the marks for each question is given.
- 3. Please write all your answers in the answer box associated with each question in this question paper.

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Section A: Answer all questions.

Fill in each blank with ONE word that best fits the meaning	of the sentence as a whole. (10 marks)
	Answer
Interaction design is concerned with designing	
a products to support the way	a.
b communicate and interact in their everyday and	b.
working lives. Interaction design is c, involving	c.
many inputs from wide-ranging disciplines and fields.	
The process of interaction design involves	
d basic activities: (1) identifying	d.
e and establishing requirements for the user	e.
experience, (2) developing alternative f that meet	f.
those requirements, (3) g interactive versions of the	g,
designs so that they can be communicated and assessed,	
and (4) h what is being built throughout the process	h.
and the user experience it offers. These activities are	
	Continued

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	Answer
intended to inform one another and to be i The	i.
interaction design lifecycle model is j to lifecycle	j.
models from other fields.	
Section B: Answer all questions.	
Identify the choice that best completes the statement or ans	swers the question. (10 marks)
 Which of the following is a design principle? A. Affordances. B. Coordinating. C. Models. D. Prototypes. 	Answer
 Which of the following is an interaction type? A. Conversing. B. Consistency. C. Cognitive walkthrough. D. Controlled experiment. 	
 The following are design implications to support EXCEPT A. Avoid cluttering the interface with too much B. Make information salient when it needs a given stage of a task. C. Provide users with a variety of ways of information to help them remember where D. Search engines and form fill-ins that are easier to use. 	h information. attending to at a encoding digital they have stored.
 The following situations elicit negative response EXCEPT A. When error messages pop up are vague. B. When an application doesn't work properly C. When a mobile system instructing you polafter having taken a wrong turn. D. When the appearance of an interface is too 	or crashes. itely where to go

5)	The following are guidelines for developing interview questions EXCEPT
	A. Compound sentences can be confusing, so split them into
	two separate questions.
	B. Try to keep questions neutral.C. Explain things to interviewees in layman's terms.
	D. Observe and record users perform their activities.
6)	Which of the following is a coding type for grounded theory?
	A. Appendix coding.
	B. Closure coding.
	C. Side coding. D. Open coding.
7)	Which of the following is NOT an external cognitive framework? A. Embodied interaction.
	B. Mental model.
	C. Distributed cognition.
	D. External cognition.
8)	Which of the following is NOT an emotional design level?
0)	A. Visceral level.
	B. Social level.
	C. Behavioral level.
	D. Reflective level.
9)	Which of the following is NOT a principle of user-centered approach?
	A. Early focus on users and tasks.
	B. Empirical measurement.C. Iterative design.
	D. Availability of resources.
10)	Which of the following is NOT an information visualization technique?
	A. Trees.
	B. Clusters.
	C. Vending machines.
	D. Scatter plot diagrams.
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Section C: Answer all questions.

1. You will design a species identification learning system/application for visitors at the National Zoo. Identify tasks associated with this product that would best be supported by each of the interaction types: instructing, conversing, manipulating and exploring.

(5 marks) Answer

Continued

Continued

2. Design/sketch a low-fidelity storyboard that depicts how to buy tickets(s) of an entertainment theme park. *NOTE: the storyboard should consist of at least 5

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scenes/frames.	(5 marks)
nswer	
4	

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Section D: Read the case study below and answer all questions.

In a Wild Study of Skiers

Jambon and Meillon (2009) carried out an in the wild study to evaluate whether and how skiers might use a mobile device which has been designed to help them improve their performance. Each skier wore a helmet that had an accelerometer and a mini-camera on top of it (see Figure 1 -left picture). These were used to gather data that could be used to provide feedback of the skiers, performance that were displayed on a smart phone (see Figure 1- right picture). The study examined how the mobile system was used by the participants while skiing. A series of trials were run in which skiers descended the mountain. Video clips from the mini camera and data from the accelerometer were collected for each skier's descent. The skiers were then asked to enter a chalet where the research team downloaded this data. The skiers then received SMS messages telling them that their data could be reviewed on their smart phones. This included: maps of their ski runs, distance covered, duration of descent, maximum speed, and the video recorded. Figure 2 shows how the different components were linked together. When and how often the skiers consulted their smart phones for feedback was logged. To great surprise of the evaluators, the skiers did not check their performance on the slopes. Instead they preferred to wait and review it in the bar during breaks. This show how in the wild studies can reveal unexpected findings. Approximately a week after the ski trials, the evaluators ran a focus group with the skiers in order to learn how they felt about the system. This was organized as an informal dinner at which the skiers confirmed that they preferred to get back their feedback after skiing on the slopes, so that their time on the slopes was not interrupted. The skiers also discussed the problems associated with using the equipment on the sloped. For example, the Bluetooth links between the GPS system and the smart phones were not reliable and there were other technical problems too.





Figure 1 (left picture) shows a skier wearing a helmet with an accelerometer and a minicamera placed on it for assessing the skier's performance and (right picture) shows the smartphone that provides feedback to the skier in the form of visualizations.

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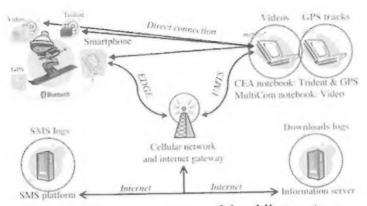


Figure 2 shows components of the skiing system.

Identify the aim of this evaluation study.	(1 mark)
Answer	
2) Identify the subjects who participated in the study.	(1 month)
Answer	(1 mark)
3) Identify the kind of setting used in this study.	<i>d</i> 10
Anguer	(1 mark)
Allswei	
3) Identify the kind of setting used in this study. Answer	(1 ma

Continued

4) Identify the stage in the product lifecycle evaluation that this study tak	es place. (1 mark)
nswer	
5) Identify the evaluation method used in this study.	
	(1 mark)
nswer	
6) What kind of data is collected in this study?	
	(1 mark
Answer	
7) Provide two ways on how the data in this study are captured or coded	•
, 1101200 1110 1121 1121 1121 1121 1121	(2 marks
Answer	
8) Briefly describe which types of data in this study that are collected.	
bitchiy describe which types of data in this study that are somewhite	(2 marks
Answer	
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